

## CLAIMS

The invention claimed is:

1. A vapor evacuation device for removing and scrubbing vapors from a vessel comprising:

5 A housing, configured to contain a scrubbing solution, substantially enclosing a fluid passageway having a first aperture configured to permit the introduction of a fluid into said fluid passageway from said vessel, said fluid passageway further comprising a second aperture positioned downstream from said first aperture, whereby fluid entering said passageway will flow from said first  
10 aperture toward said second aperture, said second aperture configured to provide fluid communication between said housing and said fluid passageway.

2. A vapor evacuation device according to claim 1 wherein said second aperture is a plurality of perforations in said fluid passageway through which fluid may flow into said housing.

15 3. A vapor evacuation device according to claim 2 further comprising a mobile chassis upon which said vapor evacuation device is mounted.

4. A vapor evacuation device according to claim 3 further comprising a sight glass configured to provide a view of the contents of said housing.

20 5. A vapor evacuation device according to claim 4 further comprising a pressure relief valve positioned in said housing through which excess vapors can be evacuated.

6. A vapor evacuation device according to claim 5 further comprising a drain positioned to permit liquid that may become trapped within said housing to drain therefrom.

7. A vapor evacuation device according to claim 6 wherein said mobile chassis comprises a frame and a plurality of wheels operatively connected thereto.

8. A vapor evacuation device according to claim 7 further comprising a motor operatively configured to draw said vapors from said vessel at an accelerated rate.

9. A vapor evacuation system comprising:

- a. a mobile chassis;
- b. a vessel mounted on said chassis; and
- c. a vapor evacuation device as described in claim 1 mounted on said chassis for removing vapors from said vessel.

10. A vapor evacuation system comprising:

- a. a buoyant base;
- b. a vessel mounted on said chassis; and
- c. a vapor evacuation device as described in claim 1 mounted on said chassis for removing vapors from said vessel.

11. A method of evacuating and scrubbing vapors from a vessel using a vapor evacuation device as described in claim 1, comprising: filling said housing with said scrubbing solution, connecting said first aperture to said vessel whereby said vapor will flow through said fluid passageway and through said second aperture into said scrubbing solution.

12. A method of evacuating vapors from a vessel according to claim 11 wherein said second aperture of said fluid connection is a series of perforations through which fluid and gas may escape.

13. A method of evacuating vapors from a vessel according to claim 12 further comprising a mobile chassis upon which said vapor evacuation device is mounted.

14. A vapor evacuation device for removing and scrubbing vapors from a vessel comprising:

A housing, configured to contain a scrubbing solution, substantially enclosing a fluid passageway having a first aperture configured to permit the introduction of a fluid into said fluid passageway from said vessel, said fluid passageway further comprising a third aperture positioned downstream from said first aperture, whereby fluid entering said passageway will flow from said first aperture toward said third aperture, said fluid passageway further comprising a second aperture configured to provide fluid communication between said housing and said fluid passageway.